TITLE: METHOD OF TRANSMITTING MULTIMEDIA DATA OVER WLAN AND POINT COORDINATOR IN WLAN
INVENTORS: Hyong-Uk CHOI et al
SERIAL NO.: Unassigned
DOCKET NO.: 1793.1093

FIG. 1 (PRIOR ART)

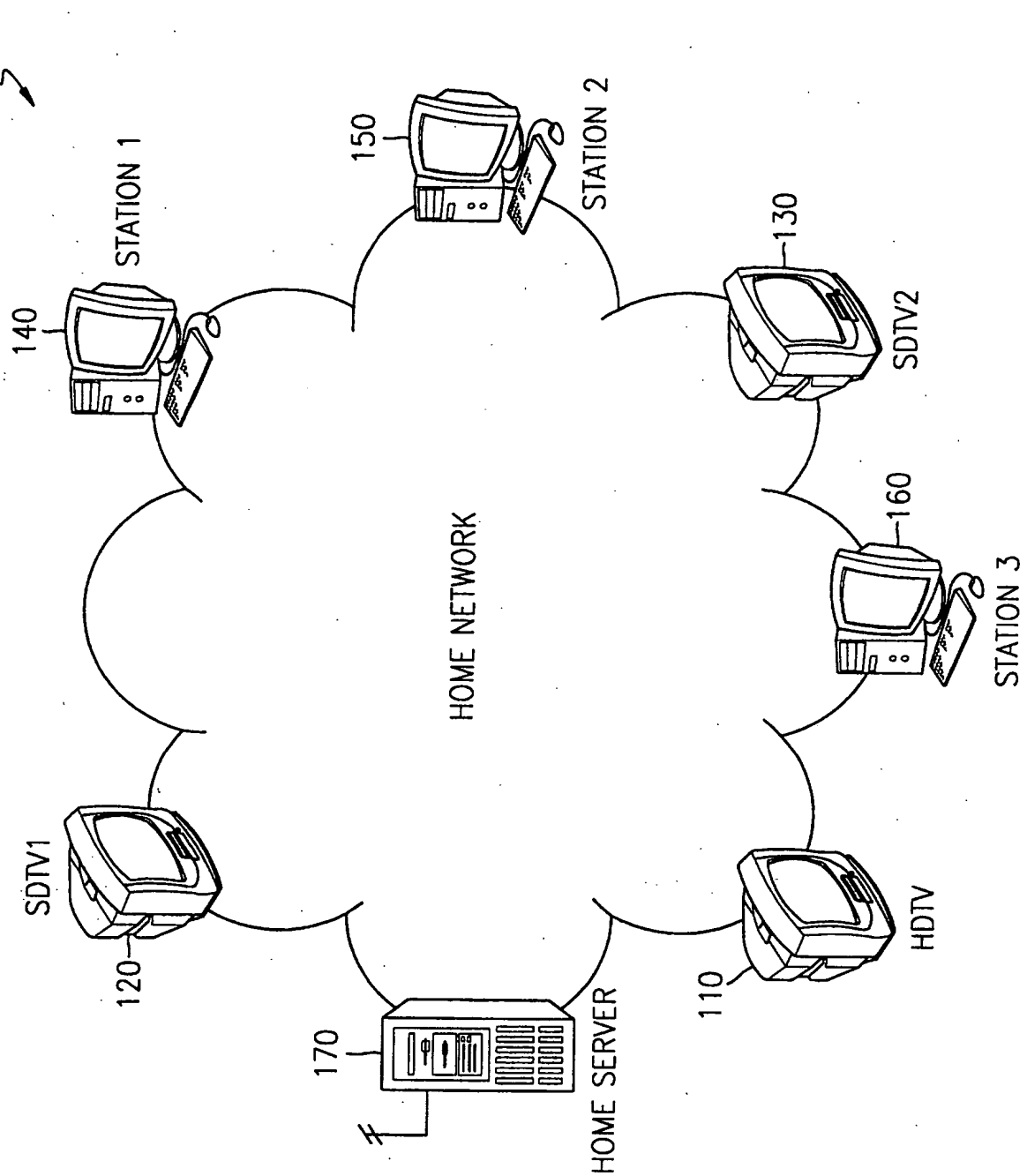

FIG. 2 (PRIOR ART)

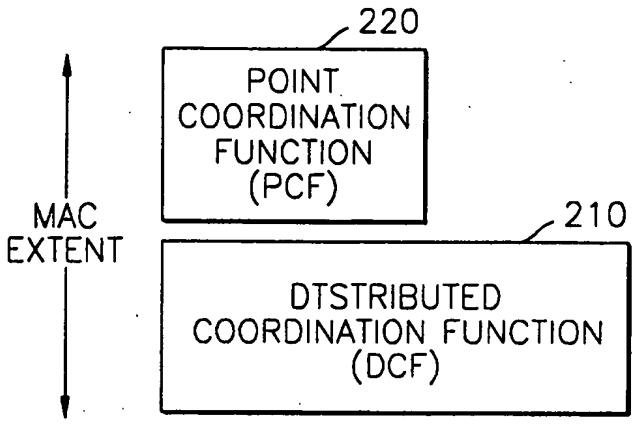

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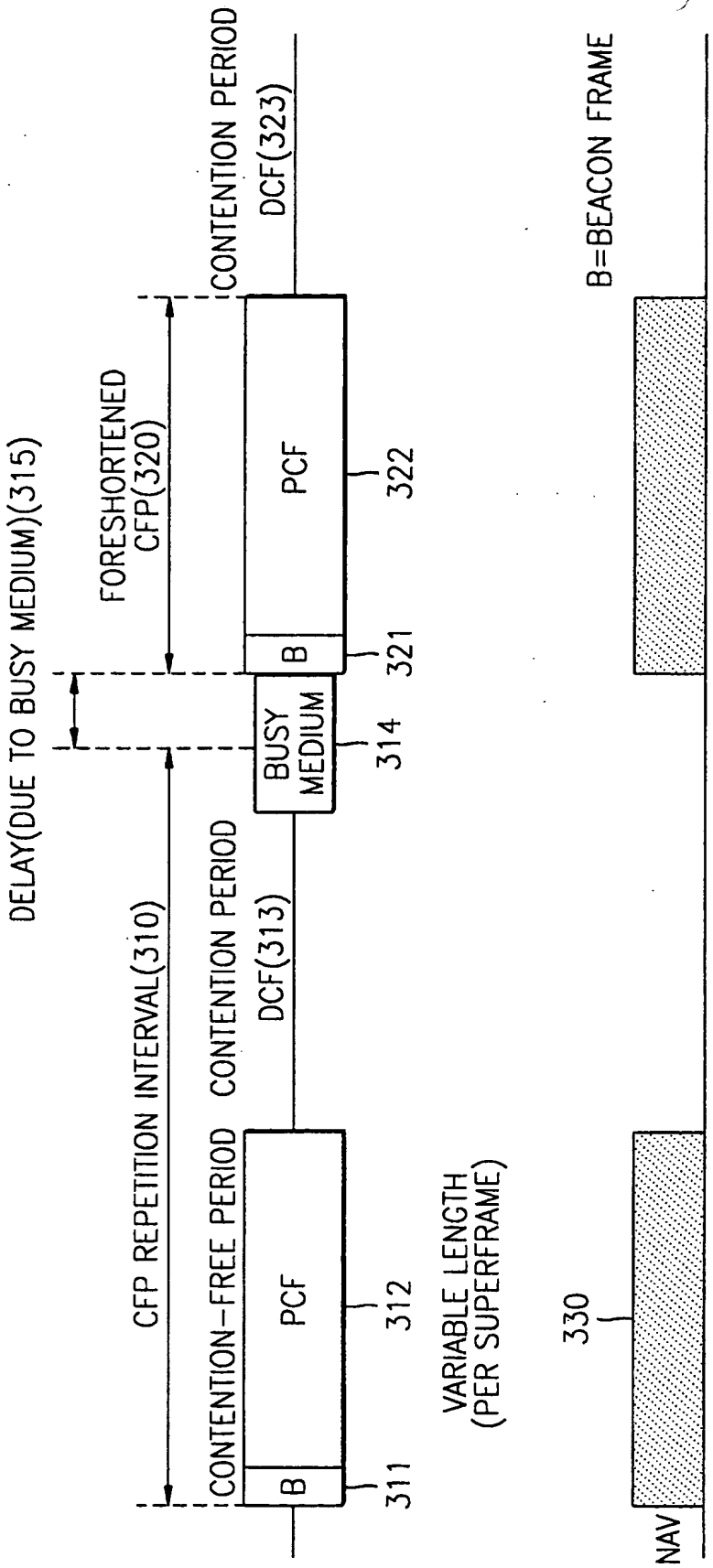
FIG. 3 (PRIOR ART)



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INVENTORS: Hyong-Uk CHOI et al
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FIG. 4 (PRIOR ART)

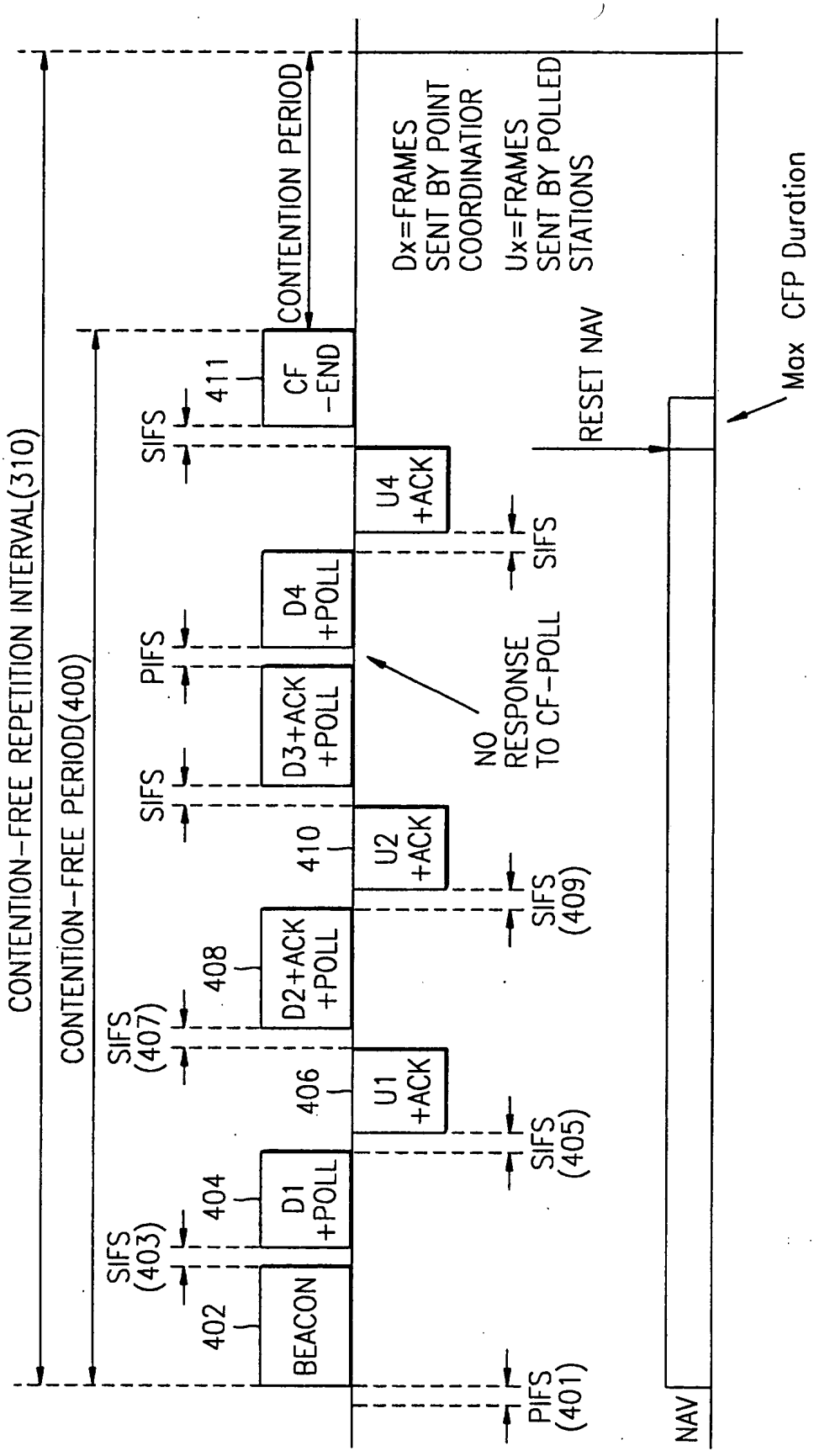

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FIG. 5

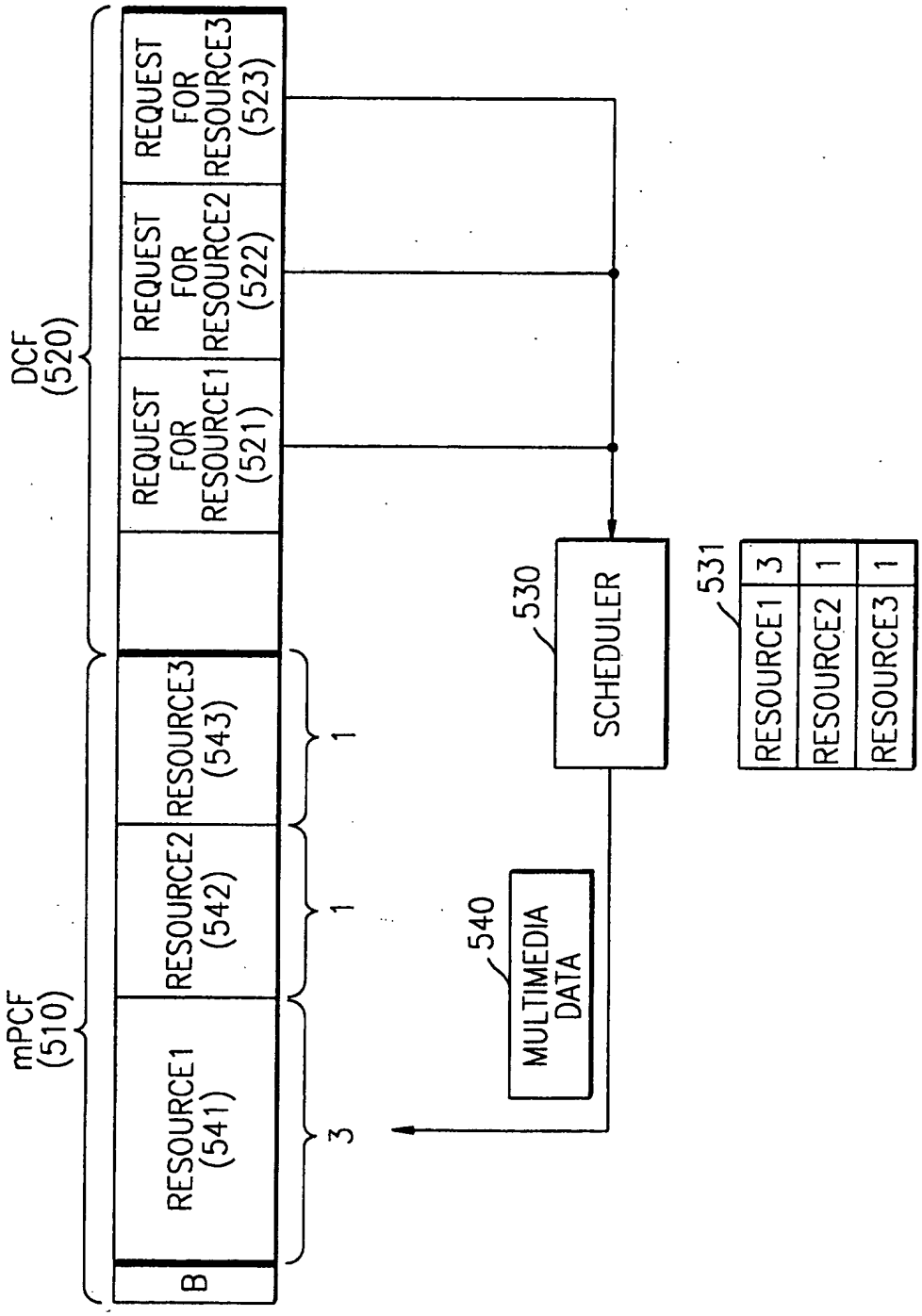

FIG. 6

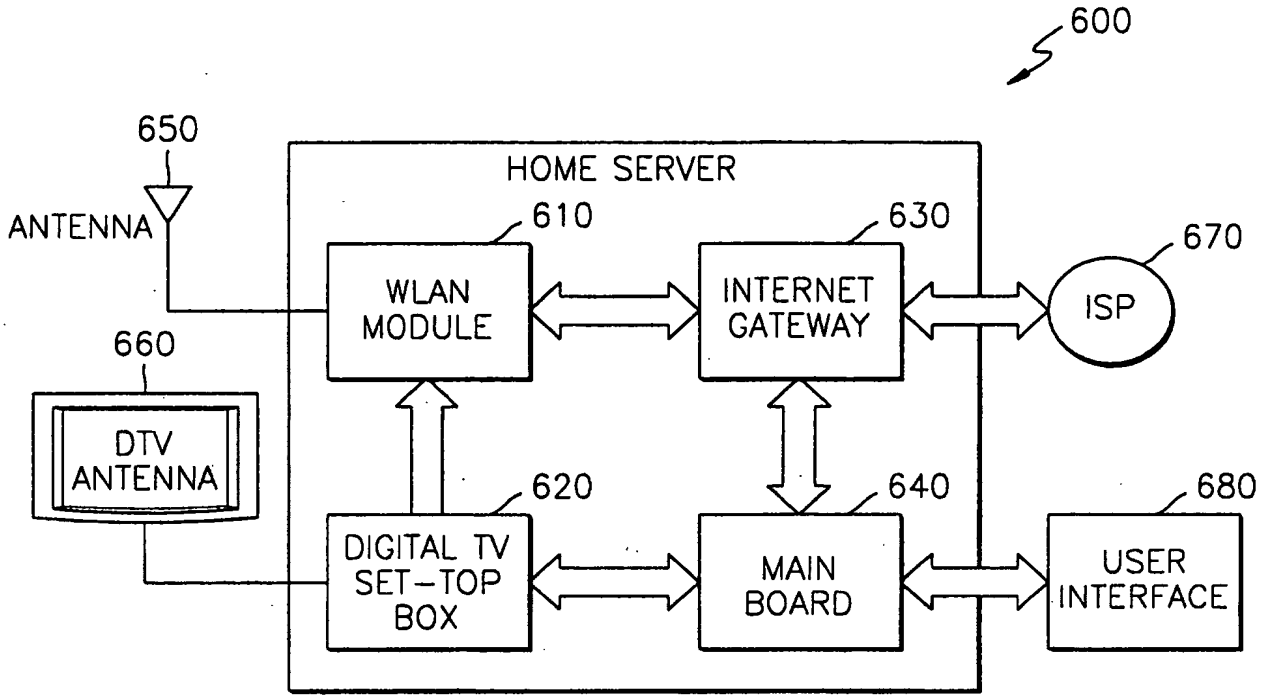
600
650
ANTENNA
HOME SERVER
610
630
670
WLAN MODULE
INTERNET GATEWAY
ISP
660
DTV ANTENNA
620
640
680
DIGITAL TV SET-TOP BOX
MAIN BOARD
USER INTERFACE

FIG. 7

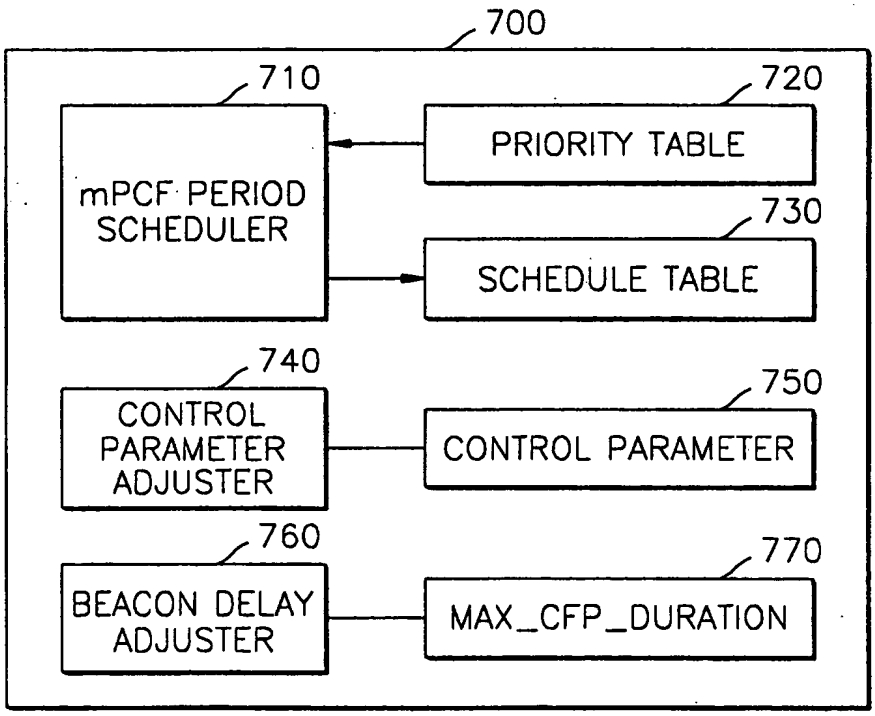
700
710
720
mPCF PERIOD SCHEDULER
PRIORITY TABLE
730
SCHEDULE TABLE
740
750
CONTROL PARAMETER ADJUSTER
CONTROL PARAMETER
760
770
BEACON DELAY ADJUSTER
MAX_CFP_DURATION

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FIG. 8

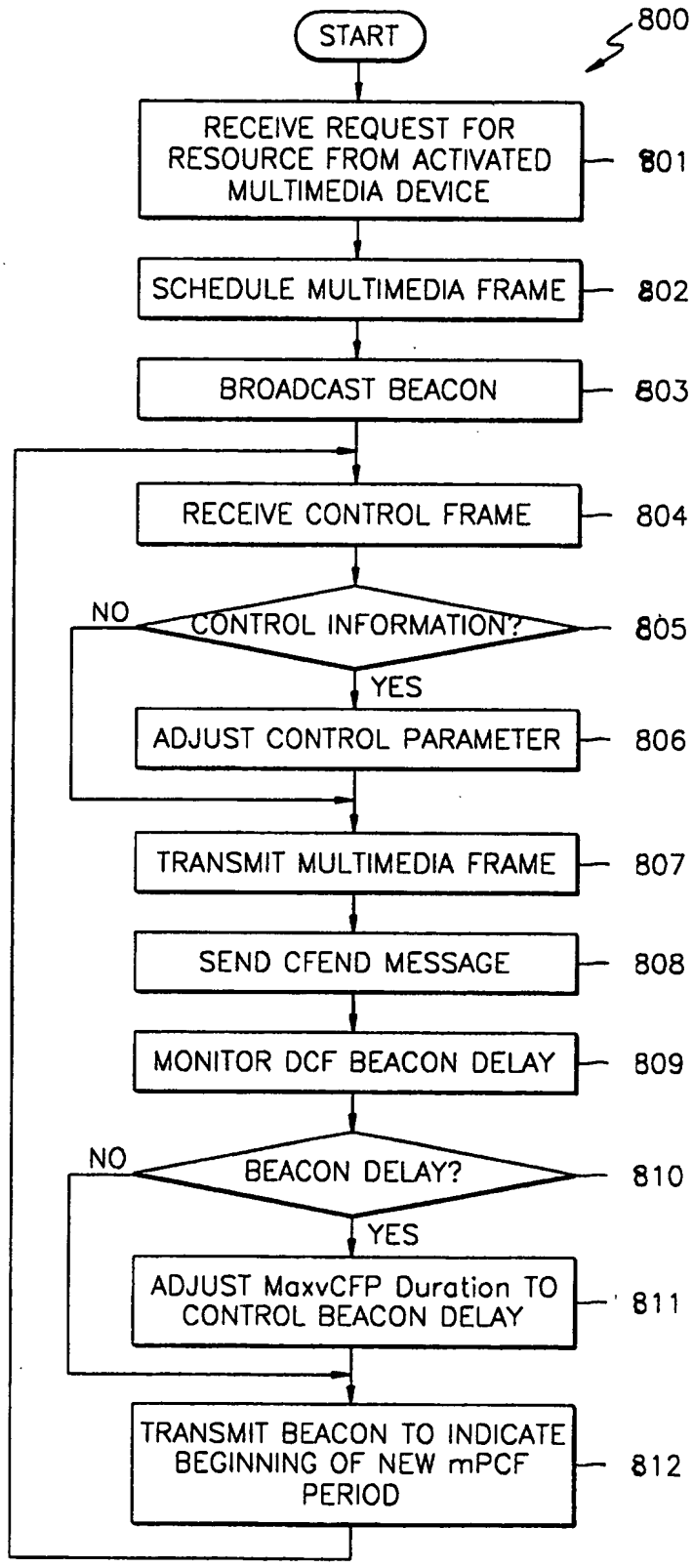

FIG. 9

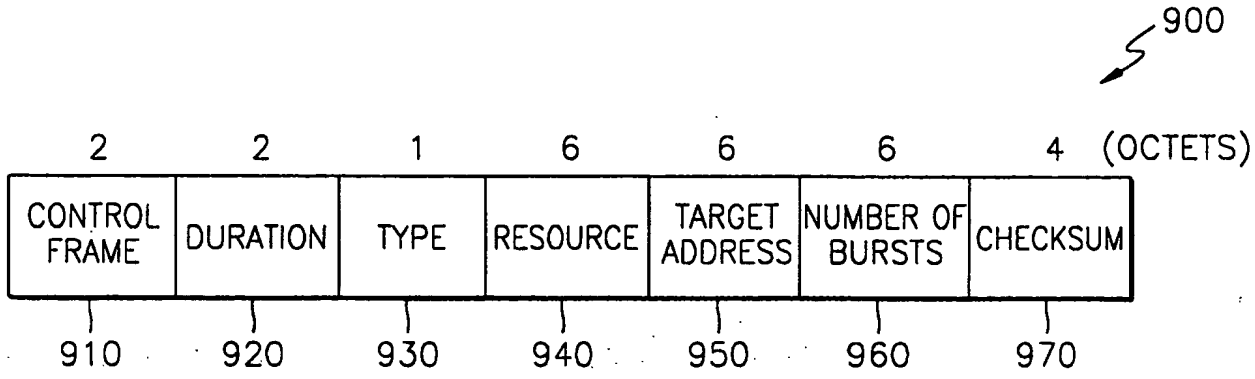
900
2
2
1
6
6
6
4
(OCTETS)
CONTROL FRAME
DURATION
TYPE
RESOURCE
TARGET ADDRESS
NUMBER OF BURSTS
CHECKSUM
910
920
930
940
950
960
970

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FIG. 10

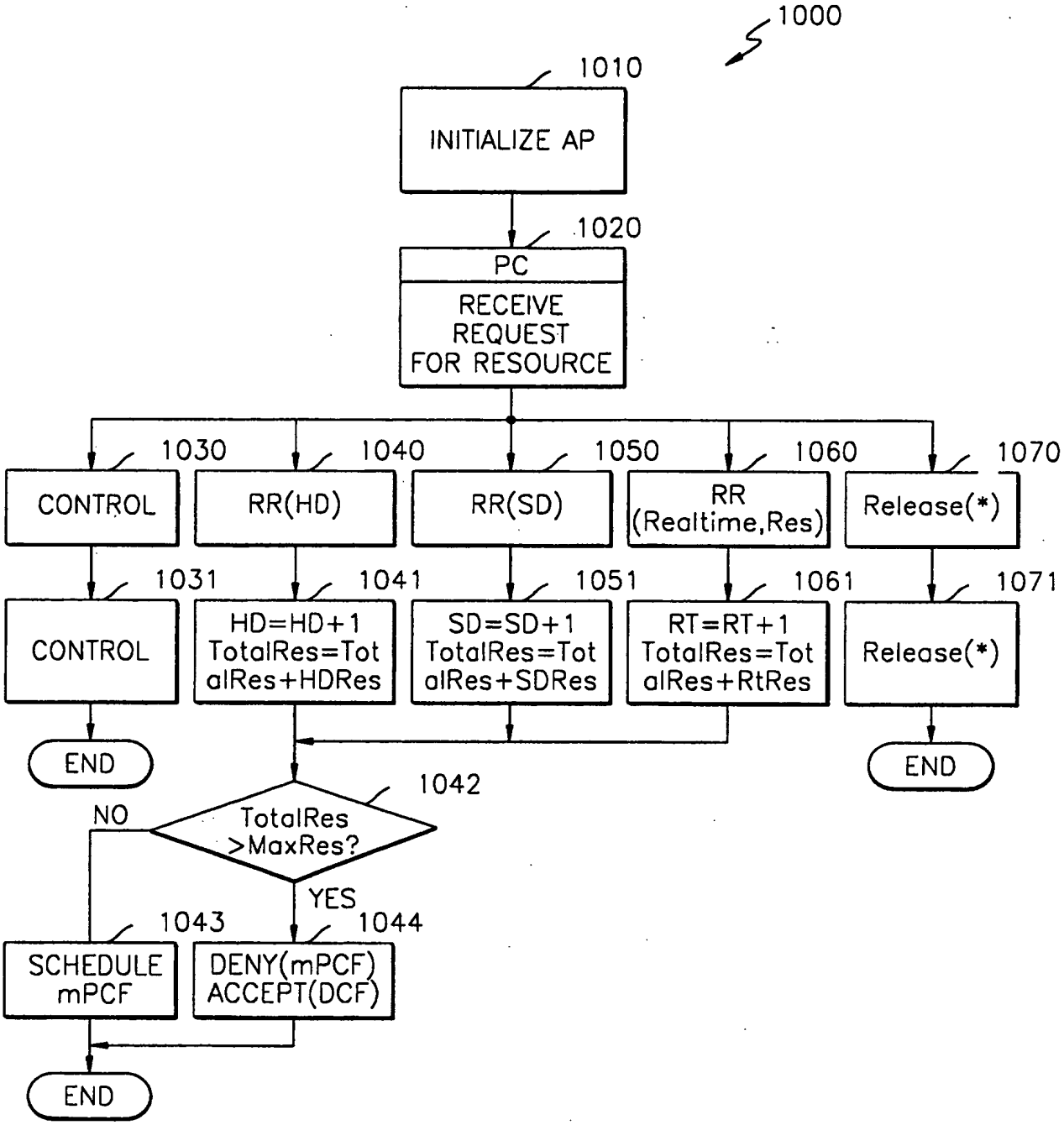

FIG. 11A

720

PRIORITY	TYPES OF DATA	REQUEST RESOURCE ALLOCATION BAND
0	CONTROL	CONTROL FRAME TRANSMISSIBLE SLOT
1	HDTV MPEG2(1080i OR 720p)	19.6Mbps
2	SDTV MPEG2(480i OR 480p)	3~6Mbps
3	REALTIME DATA(VOD)	0.5~2Mbps
4	REGULAR DATA	CONTENTION-BASED

FIG. 11B

730

PRIORITY LEVEL	TARGET ADDRESS	RESOURCE	NUMBER OF BURSTS
1	HD	20Mbps	10
2	SD	6Mbps	1
3	SD	6Mbps	1

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FIG. 12

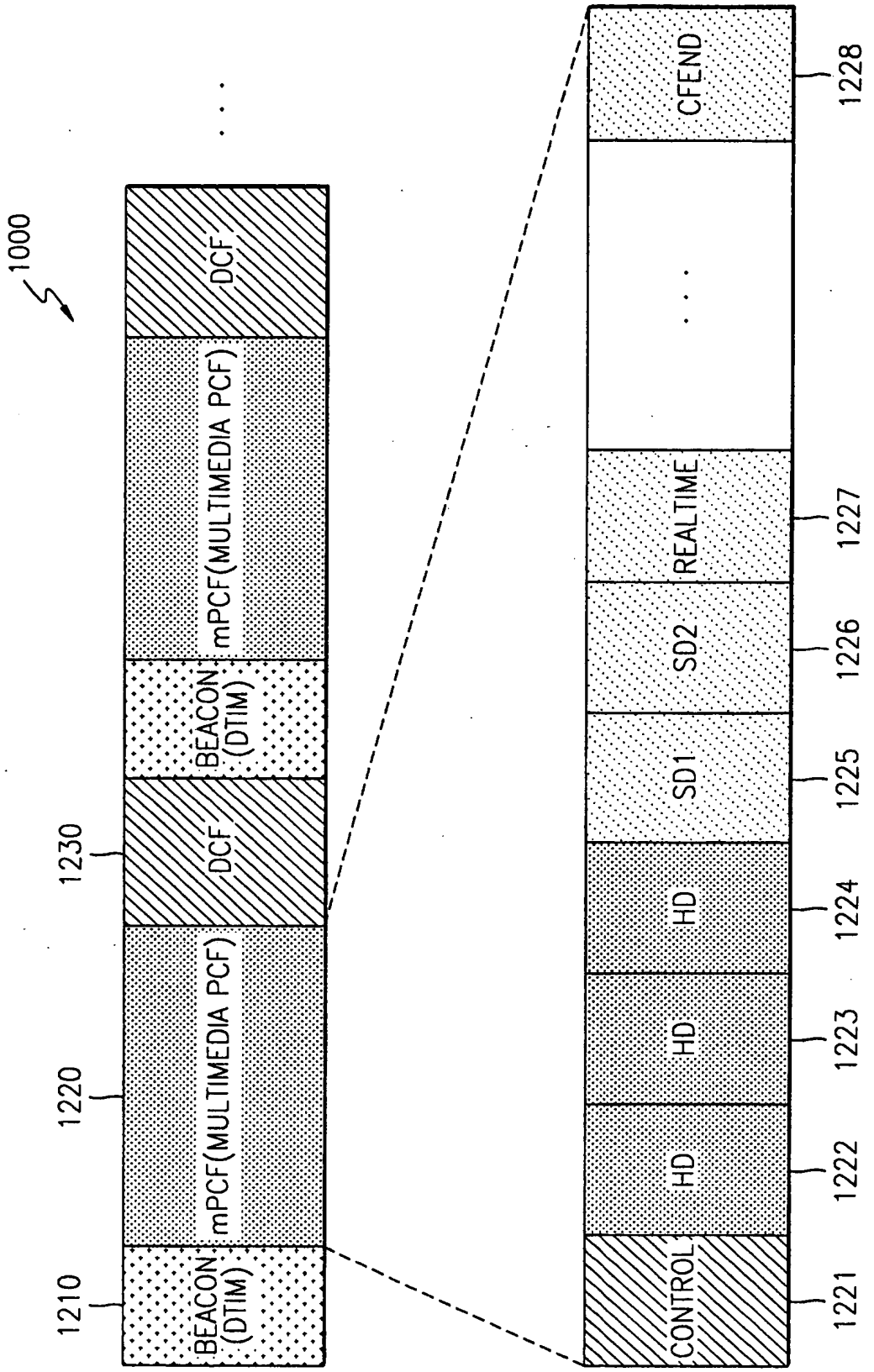

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FIG. 13

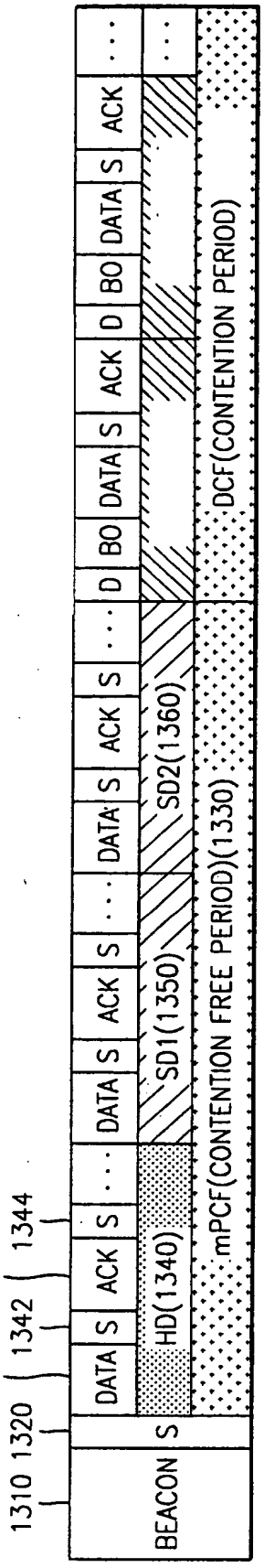

FIG. 14

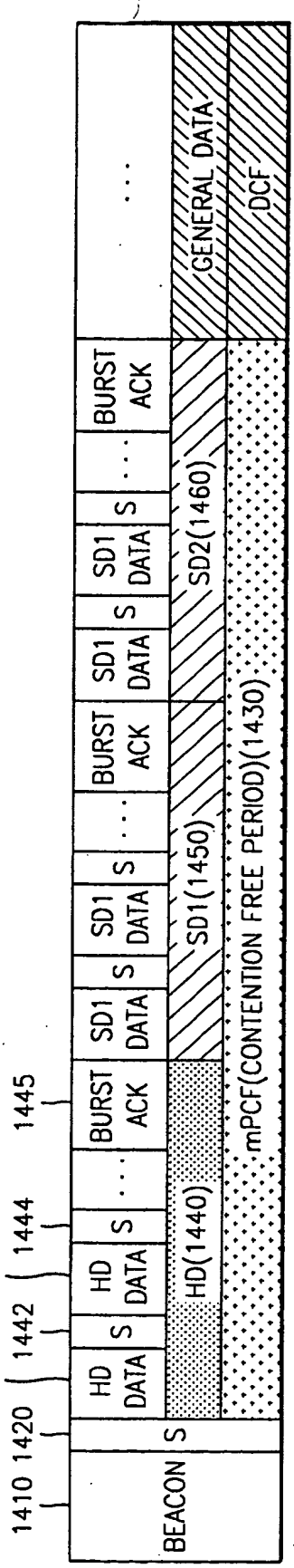

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FIG. 15

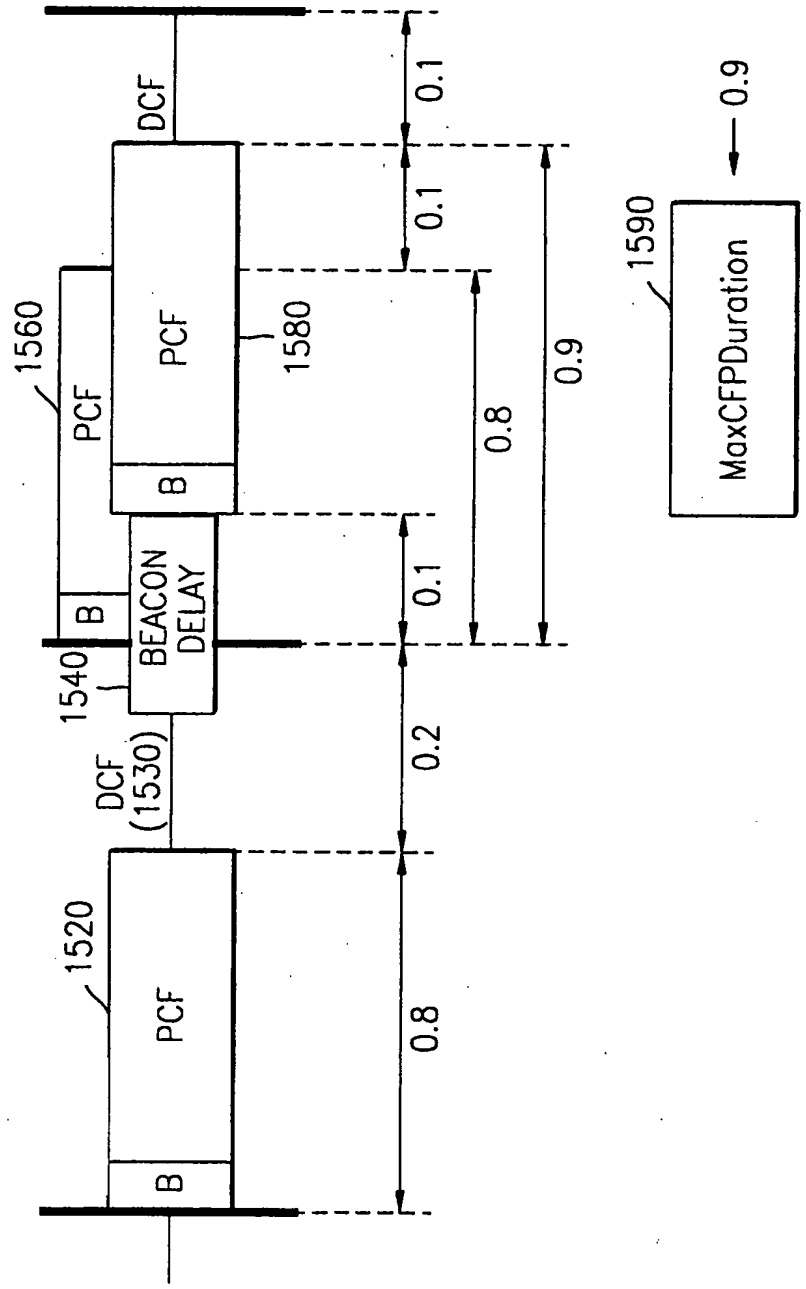

FIG. 16A

DIFS	BACKOFF	DATA	SIFS	ACK	TOTAL
34 μs	67.5 μs	248.26 μs	16 μs	24 μs	389.76 μs

FIG. 16B

DATA	SIFS	ACK	SIFS	TOTAL
248.26 μs	16 μs	24 μs	16 μs	304.26 μs

FIG. 16C

DATA	SIFS	· · ·	ACK	SIFS
248.26 μs	16 μs	264.26 μs X N	24 μs	16 μs

FIG. 17A

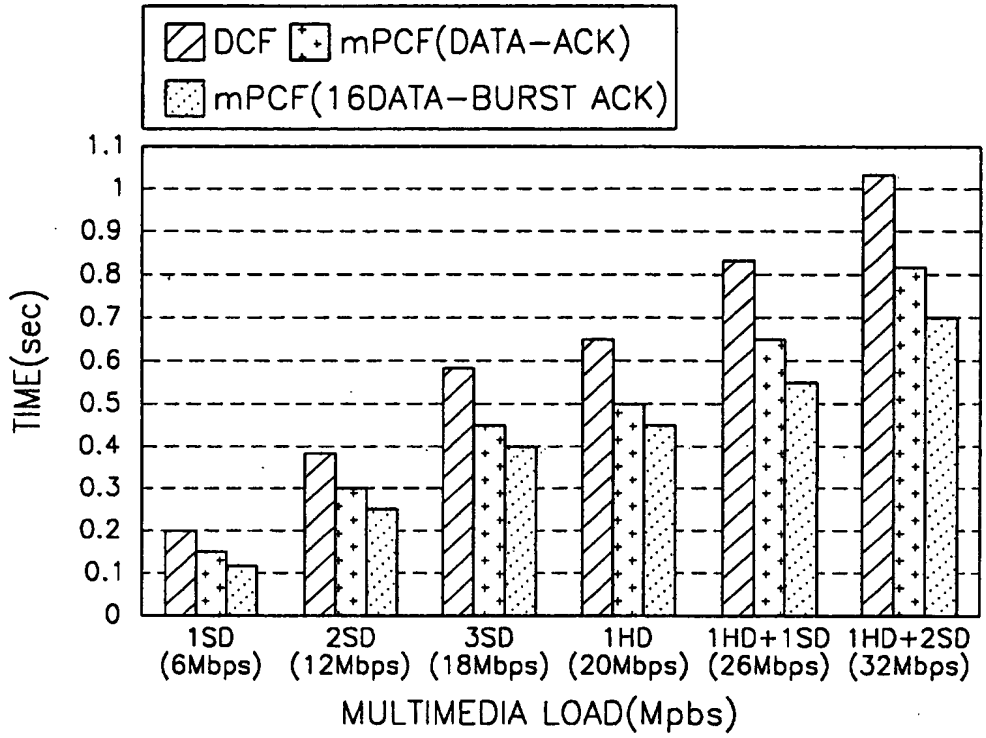

FIG. 17B

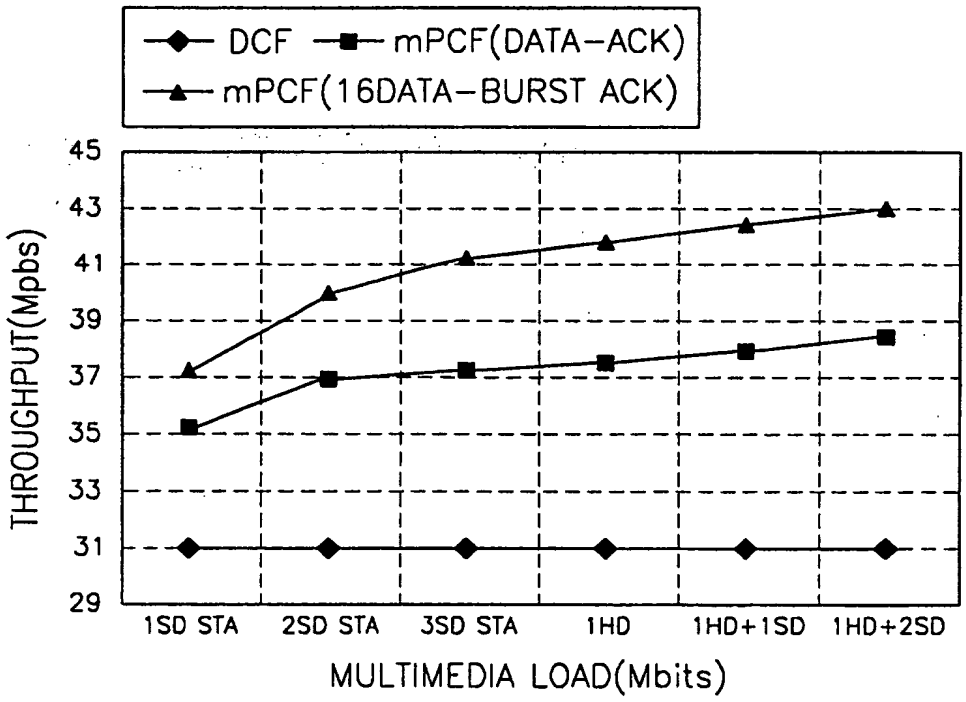

FIG. 17C

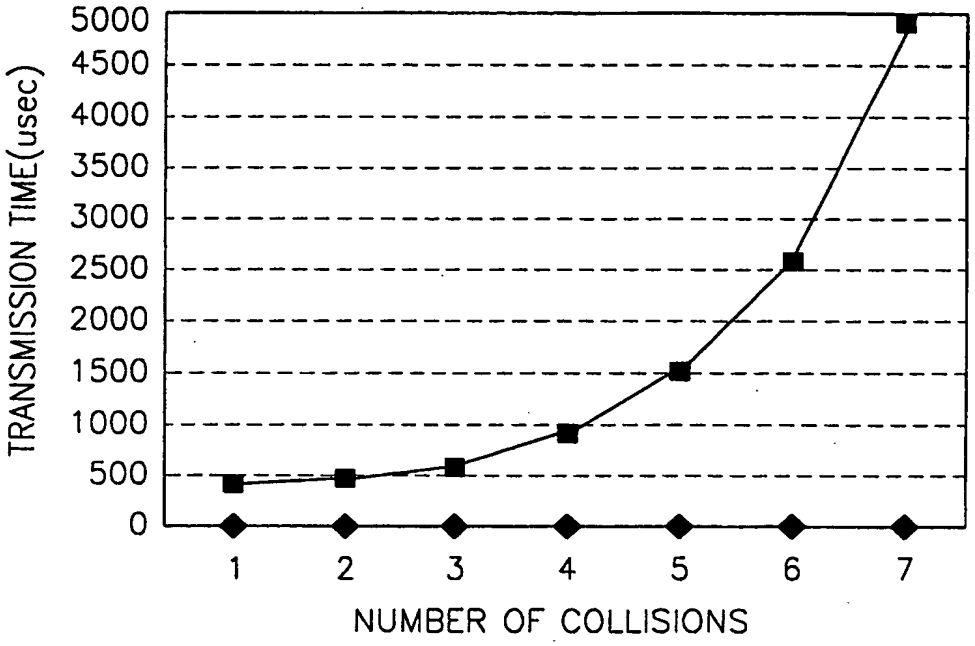

FIG. 18

1 sec - Ack Handshaking	
mPCF (0.789sec)	DCF (0.202sec)